

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P489454

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-20-120-EDD-90**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P489454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-A12125-LD4-2STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

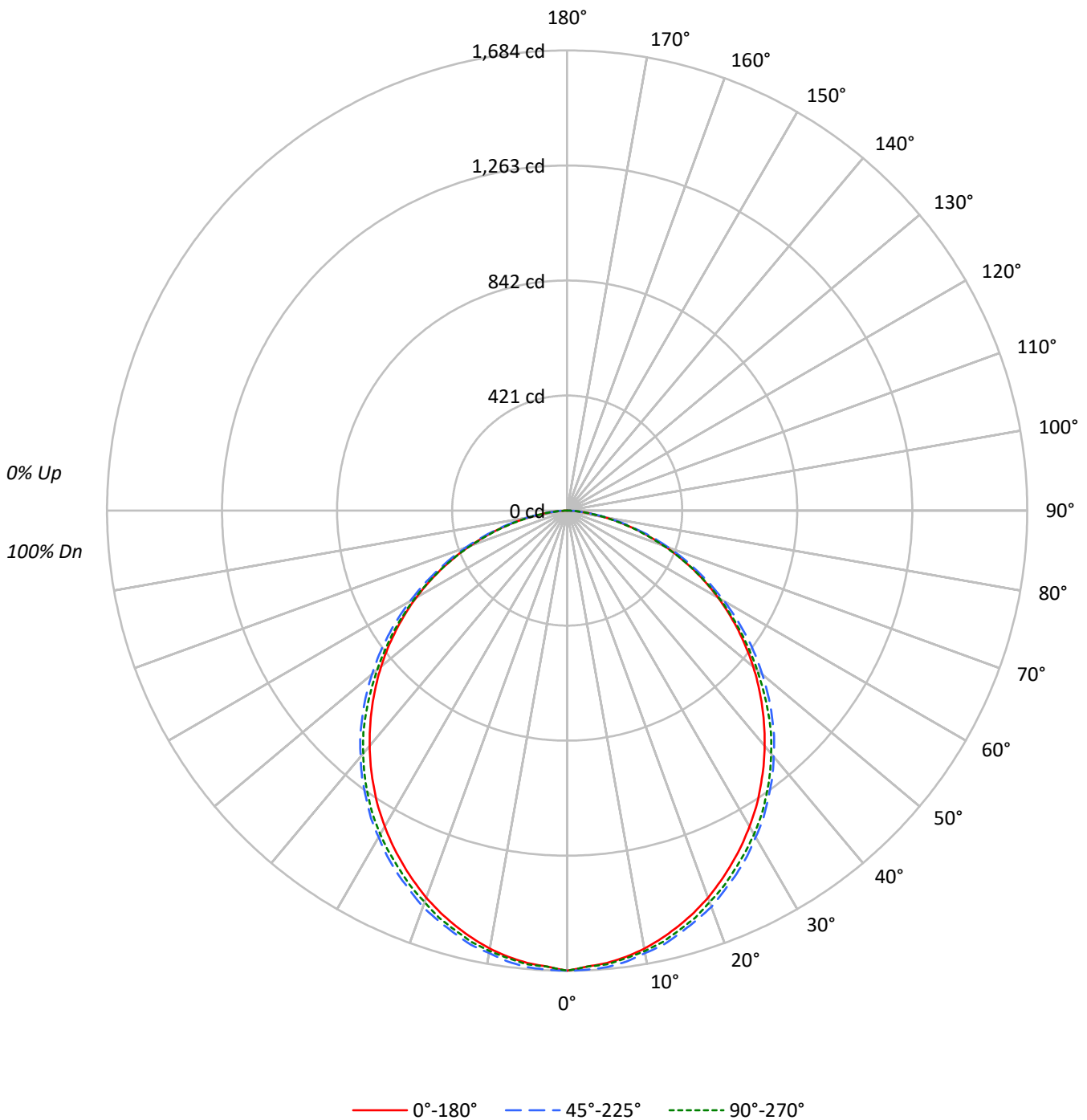
Lumens per Lamp: N/A
Luminaire Lumens: 4426.8 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2266	2266	2266
5°	2245	2266	2252
10°	2224	2247	2236
15°	2193	2229	2213
20°	2159	2210	2183
25°	2117	2178	2153
30°	2074	2144	2125
35°	2027	2108	2088
40°	1975	2065	2039
45°	1919	2016	1978
50°	1861	1951	1900
55°	1794	1878	1820
60°	1717	1789	1734
65°	1619	1681	1620
70°	1489	1549	1473
75°	1312	1371	1291
80°	1065	1112	1054
85°	743	790	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.6
10°-20°	449.4	10.2
20°-30°	670.2	15.1
30°-40°	794.2	17.9
40°-50°	803.6	18.2
50°-60°	701.9	15.9
60°-70°	512.9	11.6
70°-80°	272.9	6.2
80°-90°	63.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1278.2	28.9
0°-40°	2072.4	46.8
0°-60°	3577.9	80.8
0°-90°	4426.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4426.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1662	1665	1678	1681	1667	158
15°	1574	1585	1600	1610	1589	444
25°	1426	1443	1467	1473	1450	657
35°	1234	1254	1283	1292	1271	772
45°	1009	1026	1059	1060	1039	778
55°	765	780	800	789	776	684
65°	508	519	528	517	509	503
75°	252	258	264	254	248	268
85°	48	49	51	52	50	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1670.6	1676.1	1681.7	1684.1	1670.5
5°	1661.9	1665.0	1677.5	1681.3	1667.1
7.5°	1647.5	1652.2	1664.3	1666.1	1652.4
10°	1627.8	1636.3	1644.3	1653.1	1636.4
12.5°	1602.7	1614.2	1627.8	1629.4	1616.8
15°	1574.5	1585.0	1599.9	1609.6	1588.7
17.5°	1542.9	1553.1	1572.4	1574.2	1561.5
20°	1507.7	1520.3	1543.5	1547.5	1524.9
22.5°	1467.7	1484.7	1504.0	1507.8	1491.2
25°	1425.7	1443.3	1467.1	1472.6	1450.3
27.5°	1381.9	1398.7	1425.6	1429.4	1410.6
30°	1334.9	1350.7	1380.1	1386.6	1367.5
32.5°	1287.1	1302.9	1335.6	1341.0	1322.4
35°	1234.2	1253.5	1283.1	1292.1	1271.2
37.5°	1180.1	1198.9	1232.6	1240.7	1218.2
40°	1124.2	1142.8	1175.9	1182.6	1161.0
42.5°	1067.0	1085.6	1121.0	1122.1	1104.2
45°	1008.6	1026.5	1059.4	1060.3	1039.4
47.5°	949.3	967.3	996.8	993.5	973.8
50°	889.3	906.5	932.2	925.6	907.9
52.5°	827.2	843.8	868.2	857.3	840.7
55°	764.7	780.1	800.5	788.9	775.9
57.5°	701.7	717.3	733.0	721.2	710.0
60°	638.2	651.9	664.7	652.8	644.2
62.5°	573.7	585.4	596.5	585.1	577.0
65°	508.4	518.8	527.9	517.3	508.8
67.5°	443.5	452.3	460.7	449.8	440.9
70°	378.6	386.1	393.8	382.6	374.4
72.5°	314.5	321.2	328.1	317.2	310.0
75°	252.3	258.1	263.7	254.0	248.4
77.5°	192.8	197.7	201.6	195.4	190.0
80°	137.5	141.2	143.5	141.0	136.0
82.5°	88.4	91.0	92.3	92.1	88.8
85°	48.1	48.9	51.2	51.8	50.0
87.5°	18.6	19.8	20.4	21.9	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)